

SCMS Seminar



POLARIZED ISOGENY ORBITS IN FAMILIES OF ABELIAN VARIETIES

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Time: 10:30-11:30am., Thursday, 3rd August, 2017

Venue: Room 2201, Guanghai Easten Main Building, Handan Campus

Abstract: Let A be an abelian scheme over B . Fix a points in A and let S be the polarized isogeny orbit generated by S . We characterize curves in A whose intersection with S is Zariski dense and give the conjecture for higher dimensional subvarieties. We will also explain how this is linked to a conjecture of Pink.

$$b_i = \frac{\sum_{j=1}^{i-1} a_{ij} x_j^{(k)} + \sum_{j=i+1}^n a_{ij} x_j^{(k)}}{x_{i+1}}$$

$$\Delta y_i = \int_{x_i}^{x_{i+1}} \frac{y' dx}{y - b_i}$$

$$\int_{x_k}^{x_{k+1}} f(x, y) dx = \int_{x_k}^{x_{k+1}} y' dx = y(x)$$